

INTERNATIONAL SEARCH REPORT

Intern. Application No

PCT/EP 97/04759

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 C07K14/47 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C07K C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	N.K. SPURR ET AK.: "Report of the second international workshop on human chromosome 8 mapping 1994" CYTOGENETICS AND CELL GENETICS, vol. 68, no. 3-4, 1995, BASEL CH, pages 148-155, XP002036781 * the whole document, esp. p153, column 2 *	1-4
A	WO 89 09777 A (ARCH DEVELOPMENT CORPORATION) 19 October 1989 see the whole document	1
A	DE 44 35 919 C (DEUTSCHES KREBSFORSCHUNGSZENTRUM) 7 December 1995 see the whole document	1
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *Z* document member of the same patent family

Date of the actual completion of the international search

8 June 1998

Date of mailing of the international search report

13-07-1998

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

Intern al Application No
PCT/EP 97/04759

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	A. ABDOLLAHI ET AL.: "Identification of a gene which shows decreased expression in malignantly transformed rat ovarian surface epithelial cells" PROCEEDINGS OF THE AMERICAN ASSOCIATION FOR CANCER RESEARCH ANNUAL MEETING, vol. 37, no. 0, 20 April 1996, WASHINGTON US, page 242 XP002036823 / * abstract nr. 1654 ---	1,4
P,X	E. ROIJER ET AL.: "Identification of a yeast artificial chromosome spanning the 8q12 translocation breakpoint in pleomorphic adenomas with t(3;8)(p21;q12)" GENES CHROMOSOMES AND CANCER, vol. 17, no. 3, November 1996, NEW YORK US, pages 166-171, XP002036782 cited in the application see the whole document ---	1-4,6-23
P,X	EMBL DATABASE, Heidelberg, DE, Acc.nr. U72621, 22 October 1996, A. Abdollahi et al., "Identification of a gene containing zinc-finger motifs based on lost expression in malignantly transformed rat ovarian surface epithelial cells". XP002036784 see abstract ---	1,4
P,X	A. ABDOLLAHI ET AL.: "Identification of a zinc-finger gene at 6q25: a chromosomal region implicated in development of many solid tumors" ONCOGENE, vol. 14, no. 16, 24 April 1997, OXFORD GB, pages 1973-1979, XP002036783 see the whole document ---	1,4
X	F NOLLET ET AL: "Genomic organization of the human beta-catenin gene (CTNNB1)" GENOMICS, vol. 32, no. 3, March 1996, NEW YORK US, pages 413-424, XP002047790 cited in the application see the whole document ---	1,5-25

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	J. HUELSKEN ET AL.: "E-cadherin and APC compete for the interaction with beta-catenin and the cytoskeleton" JOURNAL OF CELL BIOLOGY, vol. 127, 1994, NEW YORK US, pages 2061-2069, XP002047791 see the whole document	1,5-25
X	--- C KRAUS ET AL.: "Localization of the human beta-catenin gene (CTNNB1) to 3p21: A region implicated in tumor development" GENOMICS, vol. 23, no. 1, 1994, NEW YORK US, pages 272-274, XP002047792 cited in the application see the whole document	1,5-25
X	--- J. VAN HENGEL ET AL.: "Assignment of the human beta-catenin gene (CTNNB1) to 3p22-p21.3 by fluorescence in situ hybridization" CYTOGENETICS AND CELL GENETICS, vol. 70, no. 1-2, 1995, BASEL CH, pages 68-70, XP002047793 see the whole document	1,5-25
A	--- RABBITTS T H: "CHROMOSOMAL TRANSLOCATIONS IN HUMAN CANCER" NATURE., vol. 372, 10 November 1994, LONDON GB, pages 143-149, XP002056672 see the whole document	1
A	--- WEINBERG R A: "TUMOR SUPPRESSOR GENES" SCIENCE., vol. 254, no. 5035, 22 November 1991, LANCASTER, PA US, pages 1138-1146, XP002056673 see the whole document -----	1

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP 97/04759

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☒ Claims Nos.: 6-23 partially
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
claims 6-23 could be searched only incompletely because they lack technical disclosure (Art. 6 PCT and PCT Search Guidelines, Chapter III, 3.7)

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

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International Application No. PCT/ EP 97/04759

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

1. Claims : 1 (partially), 2-4 (completely) and 6-25 (partially)

Isolated gene implicated in tumorigenesis, having the nucleotide sequence of any one of the members of the PLAG subfamily of zinc finger proteins

2. Claims : 1 (partially), 5 (completely) and 6-25 (partially)

Isolated gene implicated in tumorigenesis, having the nucleotide sequence of the CTNNB1 gene.

INTERNATIONAL SEARCH REPORT

Information on patent family members

Interr. nal Application No

PCT/EP 97/04759

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 8909777	A	19-10-1989	US	5206152 A	27-04-1993
DE 4435919	C	07-12-1995	WO	9611267 A	18-04-1996
			EP	0784680 A	23-07-1997